

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	248707	nitrite or nitrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:48
L2	74082	trifluoroacetic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 09:20
L3	2239	I1 same I2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 07:51
L4	72634	adipic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 07:51
L5	10	I3 same I4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:28
L6	119	(562/528).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/08/08 08:29
L7	112	(562/540).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/08/08 08:29
L8	214	I6 or I7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 09:16
L9	0	I3 and I8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:30
L10	1	((nitrite or nitrate) same (trifluoroacetic of trifluoroacetic) same (cycloalkanol or cycloalkanone or cyclohexanol or cyclopentanol or cyclohexanone or cyclopentanone)). clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:51
L11	9	((nitrite or nitrate) and (trifluoroacetic of trifluoroacetic) \and (cycloalkanol or cycloalkanone or cyclohexanol or cyclopentanol or cyclohexanone or cyclopentanone)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:54

EAST Search History

L12	9	((nitrite or nitrate) and (trifluoroacetic of trifluoroacetic) and (cycloalkanol or cycloalkanone or cyclohexanol or cyclopentanol or cyclohexanone or cyclopentanone)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:55
L13	9	((nitrite or nitrate) and (trifluoroacetic or trifluoroacetic) and (cycloalkanol or cycloalkanone or cyclohexanol or cyclopentanol or cyclohexanone or cyclopentanone)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:55
L14	59	I4 and I8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 09:15
L15	198	I6 or I7	US-PGPUB; USPAT	OR	ON	2007/08/08 09:17
L16	3	I2 and I15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 09:20

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NEWS 3 MAY 08 CA/Capplus Indian patent publication number format defined
NEWS 4 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 5 MAY 21 BIOSIS reloaded and enhanced with archival data
NEWS 6 MAY 21 TOXCENTER enhanced with BIOSIS reload
NEWS 7 MAY 21 CA/Capplus enhanced with additional kind codes for German patents
NEWS 8 MAY 22 CA/Capplus enhanced with IPC reclassification in Japanese patents
NEWS 9 JUN 27 CA/Capplus enhanced with pre-1967 CAS Registry Numbers
NEWS 10 JUN 29 STN Viewer now available
NEWS 11 JUN 29 STN Express, Version 8.2, now available
NEWS 12 JUL 02 LEMBASE coverage updated
NEWS 13 JUL 02 LMEDLINE coverage updated
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NEWS 15 JUL 02 CHEMCATS accession numbers revised
NEWS 16 JUL 02 CA/Capplus enhanced with utility model patents from China
NEWS 17 JUL 16 Capplus enhanced with French and German abstracts
NEWS 18 JUL 18 CA/Capplus patent coverage enhanced
NEWS 19 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20 JUL 30 USGENE now available on STN
NEWS 21 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 22 AUG 06 BEILSTEIN updated with new compounds
NEWS 23 AUG 06 FSTA enhanced with new thesaurus edition

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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=> file caplus

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SINCE FILE

TOTAL

ENTRY

SESSION

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0.42

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FILE COVERS 1907 - 8 Aug 2007 VOL 147 ISS 7

FILE LAST UPDATED: 7 Aug 2007 (20070807/ED)

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=> nitrite or nitrate

61852 NITRITE

25298 NITRITES

77440 NITRITE

(NITRITE OR NITRITES)

262801 NITRATE

81334 NITRATES

307259 NITRATE

(NITRATE OR NITRATES)

L1 347261 NITRITE OR NITRATE

=> trifluoroacetic

L2 179 TRIFLUOROACETIC

=> trifluoroacetic

L3 17531 TRIFLUOROACETIC

=> l2 or l3

L4 17623 L2 OR L3

=> l1(l)l4

L5 151 L1(L)L4

=> adipic

L6 40137 ADIPIC

=> l5 and l6

L7 2 L5 AND L6

=> d l7 1-2 ti fbib abs

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

TI Process for preparation of aliphatic dicarboxylic acid derivatives

AN 2005:1075752 CAPLUS

DN 143:346805

TI Process for preparation of aliphatic dicarboxylic acid derivatives

IN Matsumura, Yoshihiro; Onomura, Osamu; Iwasaki, Fumiaki

PA Tokuyama Corporation, Japan
SO PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005092827	A1	20051006	WO 2005-JP5986	20050323
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				JP 2004-90983	A 20040326
	EP 1728779	A1	20061206	EP 2005-721635	20050323
	R: DE, FR				
				JP 2004-90983	A 20040326
				WO 2005-JP5986	W 20050323
	CN 1938254	A	20070328	CN 2005-80009876	20050323
				JP 2004-90983	A 20040326
				WO 2005-JP5986	W 20050323

OS CASREACT 143:346805

AB This invention pertains to a method for producing aliphatic dicarboxylic acids, which comprises oxidation of alicyclic secondary alc. compds. or alicyclic ketone compds. with nitrite or nitrate in the presence of trifluoroacetic acid. For example, hexanedioic acid was prepared from both cyclohexanol and cyclohexanone by oxidation with NaNO₂.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

TI Efficient oxidation of cycloalkanols by sodium nitrite with molecular oxygen in trifluoroacetic acid

AN 2004:815380 CAPLUS

DN 142:6002

TI Efficient oxidation of cycloalkanols by sodium nitrite with molecular oxygen in trifluoroacetic acid

AU Matsumura, Yoshihiro; Yamamoto, Yutaka; Moriyama, Noriaki; Furukubo, Shigeru; Iwasaki, Fumiaki; Onomura, Osamu

CS Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, 852-8521, Japan

SO Tetrahedron Letters (2004), 45(44), 8221-8224

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier B.V.

DT Journal

LA English

OS CASREACT 142:6002

AB Oxidation of aliphatic cycloalkanols by sodium nitrite in trifluoroacetic acid gave α,ω -dicarboxylic acids in good yields. Adipic acid was obtained in a quant. yield from cyclohexanol using 1 equiv of sodium nitrite under oxygen atmospheric but the oxidation required more than 3 equiv of sodium nitrite under nitrogen atmospheric. The oxidation method was applicable to the conversion of

1-alkanols to the corresponding carboxylic acids.

RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> cyclopentanol or cyclohexanol or cyclopentanone or cyclopentanol
    3887 CYCLOPENTANOL
    306 CYCLOPENTANOLS
    4013 CYCLOPENTANOL
        (CYCLOPENTANOL OR CYCLOPENTANOLS)
    23960 CYCLOHEXANOL
    1119 CYCLOHEXANOLS
    24366 CYCLOHEXANOL
        (CYCLOHEXANOL OR CYCLOHEXANOLS)
    12960 CYCLOPENTANONE
    1057 CYCLOPENTANONES
    13350 CYCLOPENTANONE
        (CYCLOPENTANONE OR CYCLOPENTANONES)
    3887 CYCLOPENTANOL
    306 CYCLOPENTANOLS
    4013 CYCLOPENTANOL
        (CYCLOPENTANOL OR CYCLOPENTANOLS)
L8      38731 CYCLOPENTANOL OR CYCLOHEXANOL OR CYCLOPENTANONE OR CYCLOPENTANOL
```

=> d his

(FILE 'HOME' ENTERED AT 07:55:24 ON 08 AUG 2007)

FILE 'CAPLUS' ENTERED AT 07:56:31 ON 08 AUG 2007

```
L1      347261 NITRITE OR NITRATE
L2      179 TRIFLUORACETIC
L3      17531 TRIFLUOROACETIC
L4      17623 L2 OR L3
L5      151 L1(L)L4
L6      40137 ADIPIC
L7      2 L5 AND L6
L8      38731 CYCLOPENTANOL OR CYCLOHEXANOL OR CYCLOPENTANONE OR CYCLOPENTANO
```

=> 15 and 18

```
L9      3 L5 AND L8
```

=> d his

(FILE 'HOME' ENTERED AT 07:55:24 ON 08 AUG 2007)

FILE 'CAPLUS' ENTERED AT 07:56:31 ON 08 AUG 2007

```
L1      347261 NITRITE OR NITRATE
L2      179 TRIFLUORACETIC
L3      17531 TRIFLUOROACETIC
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L7      2 L5 AND L6
L8      38731 CYCLOPENTANOL OR CYCLOHEXANOL OR CYCLOPENTANONE OR CYCLOPENTANO
L9      3 L5 AND L8
```

=> 19 not 17

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L10     1 L9 NOT L7
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=> d 110 ti fbib abs

```
L10     ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
TI      Oxidation of alcohols to carbonyl compounds by nitrates and
        nitrites in aqueous trifluoroacetic acid. Reaction
        mechanism and unusual stoichiometry of reduction of the oxidant to
        nitrogen
AN      1989:23082  CAPLUS
DN      110:23082
```

TI Oxidation of alcohols to carbonyl compounds by nitrates and
nitrites in aqueous trifluoroacetic acid. Reaction
mechanism and unusual stoichiometry of reduction of the oxidant to
nitrogen
AU Rodkin, M. A.; Shpern, M. M.; Cheprakov, A. V.; Makhon'kov, D. I.;
Mardaleishvili, R. E.; Beletskaya, I. P.
CS Mosk. Gos. Univ., Moscow, USSR
SO Zhurnal' Organicheskoi Khimii (1988), 24(3), 488-95
CODEN: ZORKAE; ISSN: 0514-7492
DT Journal
LA Russian
OS CASREACT 110:23082
AB The oxidation of benzyl alcs., benzhydrols, alkylphenylcarbinols,
cycloalkanols, and sec-alkanols was carried out with NH4NO3 and/or NaNO2
in aqueous CF3CO2H. The N2 produced suggested that the mechanism involved
hydride transfer to form HNO. If O2 is present, the oxidation can be carried
out with a catalytic amount of nitrate.

=> ?carboxylic
L11 419176 ?CARBOXYLIC

=> d his

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L1 347261 NITRITE OR NITRATE
L2 179 TRIFLUORACETIC
L3 17531 TRIFLUOROACETIC
L4 17623 L2 OR L3
L5 151 L1(L)L4
L6 40137 ADIPIC
L7 2 L5 AND L6
L8 38731 CYCLOPENTANOL OR CYCLOHEXANOL OR CYCLOPENTANONE OR CYCLOPENTANO
L9 3 L5 AND L8
L10 1 L9 NOT L7
L11 419176 ?CARBOXYLIC

=> l5 and l11
L12 14 L5 AND L11

=> l12 and l9
L13 2 L12 AND L9

=> l12 not l9
L14 12 L12 NOT L9

=> d l14 1-12 ti

L14 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI New graphite nitrate derived intercalation compounds of higher thermal
stability

L14 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Use and applications of the computer interface freezing point depression
measurements in the calculation of the van't Hoff factor of aqueous
solutions

L14 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of substituted β -carboline I κ B kinase 2 (IKK-2)
inhibitors as potential antiinflammatory, immunomodulatory, or anticancer
agents

L14 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Synthesis of enantiomerically pure amino-substituted fused bicyclic rings

L14 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Diazotization of Methyl 3-Amino-7-isopropyl-2-methoxyazulene-1-carboxylate and Its 5-Isopropyl Isomer - A Convenient Synthesis of 1,2-Azulenequinone derivatives

L14 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of 2-azetidinone (β -lactam) derivatives

L14 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Synthesis and magnetic property of carboxyl bridging dicopper(II) complexes

L14 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Photocatalytic systems. Part XX. Spin trapping of radicals in the photolysis of cerium(IV) and uranium(VI) in carboxylic acids

L14 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Conversion of carboxylic acids to nitriles with shortening of the aliphatic chain by a methylene group

L14 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Tropic acid derivatives

L14 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Base hydrolysis of carboxylatopentaamminecobalt(III) nitrates

L14 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Thiocyanogen, thiocyanates, and isothiocyanates. III. Substitution reactions of triphenylmethyl isothiocyanate with acids and salts

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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CA SUBSCRIBER PRICE	-2.34	-2.34

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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.34	-2.34

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ADISINSIGHT	- Adis R&D Insight 1986-present
ADISNEWS	- Adis Newsletters 1983-present
AEROSPACE	- Aerospace and High Technology Database 1962-present
AGRICOLA	- AGRICulture OnLine Access from 1970 - present
ALUMINIUM	- Aluminium Industry Abstracts 1968 to the present
ANABSTR	- Analytical Abstracts
ANTE	- Abstr. in New Technologies and Eng. 1981 - present
APOLLIT	- APPLIED POLYMERS LITERATURE 1973-present
AQUALINE	- Aqualine 1960 to the present
AQUASCI	- Aquatic Sciences & Fisheries Abstracts 1978-present
AQUIRE	- Aquatic Toxicity Information Retrieval
BABS	- BEILSTEIN Database Abstracts 1980-present
BEILSTEIN	- BEILSTEIN File of Organic Compounds
BIBLIODATA	- GERMAN NATIONAL BIBLIOGRAPHY FROM 1945 - PRESENT
BIOENG	- Biotechnology and Bioengineering database 1982 - pres.
BIOSIS	- The BIOSIS Previews(R)/RN File 1969-present
BIOTECHABS	- Derwent Biotechnology Resource 1982-present
BIOTECHDS	- Derwent Biotechnology Resource 1982-present (Subsc.)
BIOTECHNO	- BIOTECHNOBASE 1980 TO 2003
CA	- The Chemical Abstracts File 1907-present
CABA	- CAB ABSTRACTS 1973-present
CAOLD	- The pre-1967 Chemical Abstracts File
CAPLUS	- The Chemical Abstracts Plus File 1907-present
CASREACT	- The Chemical Abstracts Reaction Search Service
CBNB	- Chemical Business NewsBase from 1984-present
CEABA-VTB	- Chem Eng and Biotech Abstr - Verfahrenstechn Ber 1966-
CERAB	- Ceramic Abstracts/World Ceramic Abstracts from 1975
CHEMCATS	- CHEMICAL CATALOGS ONLINE 1993-to the present
CHEMINFORMRX	- The CHEMINFORMRX Reaction Search Service
CHEMLIST	- Regulated Chemicals Listing
CHEMSAFE	- CHEMSAFE - chemical safety information
CIN	- The Chemical Industry Notes File for 1974-present
CIVILENG	- Civil Engineering Abstracts 1966 to the present
COMPENDEX	- COMPENDEX*PLUS File from 1970 - present
COMPUAB	- Computer & Information Systems Abstracts 1981-present
COMPUSCIENCE	- COMPUTERSCIENCE FROM 1972-2002

CONFSCI	- Conference Papers Index from 1973-present
COPPERLIT	- Copper Literature Database
CORROSION	- Corrosion Abstracts 1980 to the present
CROPB	- Derwent Crop Protection File 1968 - 1984
CROPR	- Derwent Crop Protection Registry
CROPU	- DERWENT CROP PROTECTION FILE 1985 - 2003
CSCHEM	- ChemSources - USA and International (Chemicals)
CSCORP	- ChemSources - USA and International (Company Directory)
CSNB	- Chemical Safety News Base from 1981-present
DDFB	- Derwent Drug File, Backfile 1964 - 1982
DDFU	- Derwent Drug File from 1983 - present
DETERM	- DETERM-DECHEMA thermophysical property database
DGENE	- Derwent Geneseq Database 1981 - present
DISSABS	- Dissertation Abstracts from 1861 to present
DJSMS	- Derwent Reaction Search Service DJSMS (Subscribers)
DJSMONLINE	- Derwent Reaction Search Service DJSMS
DKF	- The German Automotive Engineering Database 1974-date
DPCI	- Derwent Patents Citation Index 1978 to present
DRUGB	- Derwent Drug File, Backfile 1964 - 1982 (Subscribers)
DRUGMONOG	- IMS Product Monographs (Approved Pharm. Industry Users)
DRUGMONOG2	- IMS Product Monographs
DRUGU	- Derwent Drug File from 1983-present (Subscribers)
ELCOM	- Electronics & Communications Abstracts 1981-present
EMA	- Engineered Materials Abstracts File from 1986-present
EMBAL	- EMBASE Alert
EMBASE	- EMBASE File from 1974-present
ENCOMPLIT	- EnCompass Literature File 1964-present (Supporters)
ENCOMPLIT2	- EnCompass Literature File 1964-Present (Non-Supporters)
ENCOMPPAT	- EnCompass Patent File 1964-present (Supporters)
ENCOMPPAT2	- EnCompass Patent File 1964-Present (Non-Supporters)
ENERGY	- DOE ENERGY file from 1974-present
ENVIROENG	- Environmental Engineering Abstracts 1990 - present
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ESBIOBASE	- Elsevier Biobase 1994 to the present
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FOREGE	- FOODLINE LEGAL
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FRANCEPAT	- The French Patent Database from 1966 - present
FRFULL	- French Patent Full Text from 1980 - present
FROSTI	- FOODLINE SCIENCE 1972 TO PRESENT
FSTA	- Food Science Technology Abstracts from 1969 - present
GBFULL	- United Kingdom (GB) Patents Full Text from 1979 - pres
GENBANK	- Genetic Sequence Data Bank
GEOREF	- Geological Reference File 1785-present
GMELIN97	- Gmelin Handb. of Inorg. Chem. + Sci. Publ. 1817-1997
HCA	- CA File with hour-based pricing
HCAOLD	- Pre-1967 CA File with hour-based pricing
HCAPLUS	- CAPLUS File with hour-based pricing
HCHEMLIST	- Regulated Chemicals Listing with hour-based pricing
HCIN	- The CIN File for 1974-present with hour-based pricing
HEALSAFE	- Health and Safety Science Abstracts 1981-present
HOME	- The default login file. Contains no data.
HSDB	- Hazardous Substances Databank
ICONDA	- International Construction Database from 1976-present
ICSD	- ICSD - Inorganic Crystal Structure Data File
IFICDB	- The IFI Comprehensive Database from 1950-present
IFICLS	- The IFI Current Patent Legal Status Database
IFIPAT	- The IFI Patent Database from 1950-present
IFIREF	- The IFI Uniterm and U.S. Class Reference File
IFIUDB	- The IFI Uniterm Database from 1950-present
IMSCOPROFILE	- IMS Company Profiles 1995-present
IMSCOSEARCH	- IMS Company Search
IMSDRUGCONF	- IMSworld Pharmaceutical Meetings Diary
IMSDRUGNEWS	- IMS Drug News 1991-present
IMSPATENTS	- IMS LifeCycle, Patent Focus with Patent Family Data

IMSPRODUCT	- IMS LifeCycle, New Product Focus from 1982-present
IMSRESEARCH	- IMS LifeCycle, R&D Focus 1977-present
INFODATA	- Information Science and Work from 1976 to present
INIS	- International Nuclear Information System 1970-present
INPADOCDB	- The Intern. Patent Documentation Database 1836-pres.
INSPEC	- INSPEC file from 1898 - present
INSPHYS	- INSPHYS - Inspec Phys Supplement Backfile (1979 - 1994
IPA	- International Pharmaceutical Abstracts 1970-present
ITRD	- International Transport Research Documentation 1972-da
JAPIO	- JAPIO - Japanese Patents from 1976 - present
KOREAPAT	- Korean Patent Abstracts Database from 1979 - present
KOSMET	- Cosmetic & Perfume Science & Technology 1968-present
LBIBLIO	- Bibliodata learning File
LCA	- The CA Learning File
LCASREACT	- The CAS Reaction Search Service Learning File
LDPCI	- Derwent Patents Citation Index Learning File
LDRUG	- Derwent Drug Learn File
LEMBASE	- The EMBASE Learning File
LIFESCI	- CSA Life Sciences Collection from 1978-present
LINSPEC	- Learning INSPEC File
LISA	- Library and Information Science Abstracts 1969 - pres.
LITALERT	- The Patent Litigation Database from 1973 - present
LMARPAT	- The CAS Patent Markush Learning File
LMEDLINE	- The MEDLINE Learning File
LPATDPA	- The PATDPA Learning File
LREGISTRY	- The Registry Learning File.
LWPI	- Derwent World Patents Index Learning File
MARPAT	- The CAS Patent Markush File 1988-present
MATBUS	- Materials Business File from 1983-present
MDF	- Metals Datafile
MECHENG	- Mechanical and Transportation Eng. Abs. 1966-
MEDLINE	- MEDlars onLINE File from 1960 - present
METADEX	- METADEX File from 1966-present
MRCK	- The Merck Index Online (SM)
MSDS-CCOHS	- CCOHS Material Safety Data Sheets
MSDS-OHS	- Material Safety Data Sheets - OHS
NAPRALERT	- Natural Products Alert Database
NLDB	- Newsletter Database from 1988 - present
NTIS	- U.S.Government Reports Announcements 1964-present
NUTRACEUT	- Nutraceuticals International 1996 to the present
OCEAN	- Oceanic Abstracts from 1964 - current
PAPERCHEM2	- Elsevier Engineering Information, Inc. File 1967 - pre
PASCAL	- PASCAL 1977 to the present
PATDD	- East German Patents from 1982-present
PATDPA	- The German Patent Database from 1968-present
PATDPAFULL	- The German Full-Text Patent Database from 1987-present
PATDPASPC	- German SPC for Drugs and Plant Protecting Agents 1992-
PATIPC	- International Patent Classification and Catchword Inde
PCTFULL	- WIPO/PCT Patents Full Text 1978 to the present
PCTGEN	- PCTGEN: World Patent Application Biosequences
PHAR	- Pharmaprojects drug development status file
PHARMAML	- Pharma Marketletter 1992 to the present
PHIC	- Pharmaceutical & Healthcare Industry News (Current)
PHIN	- Pharmaceutical & Healthcare Industry News Archive 1980
PIRA	- PIRA & PAPERBASE Database from 1975
POLLUAB	- Pollution Abstracts from 1970-present
PROMT	- PROMT from 1978 - present
PROUSDDR	- Drug Data Report from Prous Science
PS	- Pharmaceutical Substances
RAPRA	- Rubber, Plastics, Polymer Composites 1972 - present
RDISCLOSURE	- Research Disclosure 1960 to the present
REGISTRY	- The CAS Registry File of substances
RSWB	- Regional planning and building construction
RTECS	- Registry of Toxic Effects of Chemical Substances
RUSSIAPAT	- RUSSIAN PATENT ABSTRACTS DATABASE FROM 1924 - PRESENT

SCISEARCH - ISI Science Citation Index from 1974 - present
 SOLIDSTATE - Solid State and Superconductivity Abstracts from 1981
 SOLIS - German literature in social sciences 1945-present
 SPECINFO - Spectral Database Information System
 STNGUIDE - Descriptive information about STN databases
 STNMAIL - STN Electronic Mail Service
 SYNTHLINE - Synthline Drug Synthesis Database 1984-present
 TEMA - TEMA: Technology and Management 1990 to the present
 TEXTILETECH - Textile Technology Digest from 1978 to the present
 TOXCENTER - Toxicology Center from 1907 - present
 TRIBO - TRIBOLOGY INDEX (Friction,Wear,Lubrication) 1972-pres.
 TULSA - Petroleum Abstracts 1965-present
 TULSA2 - Petroleum Abstracts 1965-present (Non-subscribers)
 UFORDAT - Environment Research in Progress from 1974 - present
 ULIDAT - Environmental Literature from 1976-present
 USAN - USAN - United States Adopted Names
 USGENE - The USPTO Genetic Sequence Database
 USPAT2 - U.S. Patents Latest Publications from 2001 - present
 USPATFULL - U.S. Patents Original Publications from 1971 - present
 VETB - Derwent Veterinary Drug File 1968 - 1982
 VETU - Derwent Veterinary Drug File 1983 - 2001
 WATER - Water Resource Abstracts 1967 to the present
 WELDASEARCH - Weldasearch 1967 to the present
 WPIDS - Derwent World Patents Index 1963 - present (Subscr.)
 WPIFV - WPIFV - DERWENT WORLD PATENT INDEX FIRST VIEW
 WPINDEX - Derwent World Patents Index 1963 - present
 WPIX - DERWENT WPI WITH EXTENSION ABSTRACTS 1963 - PRESENT
 WSCA - World Surface Coatings Abstracts 1976 - present
 WTEXTILES - WORLD TEXTILES 1970 TO THE PRESENT
 ZCA - CA File with zero connect hour pricing
 ZCAPLUS - CAPLUS File with zero connect hour pricing
 ZREGISTRY - Zero connect hour REGISTRY

To look at detailed information about a file, first access that file using the FILE command. Enter "HELP CONTENT" at an arrow prompt (=>) for a general description of the file. Enter "HELP DIRECTORY" for a list of help messages available for that file. The database summary sheet is also available for the file in STNGUIDE. Enter "FILE STNGUIDE" at an arrow prompt (=>), then search the file name in the /DBN search field. You can then display the search fields, display fields, file content, sources, etc.

All files are available for multifile searching except HOME, STNGUIDE, STNMAIL, and the Learning Files.

=>

=> file CASREACT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	52.41	52.83
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.34	-2.34

FILE 'CASREACT' ENTERED AT 09:09:18 ON 08 AUG 2007
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 5 Aug 2007 VOL 147 ISS.7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

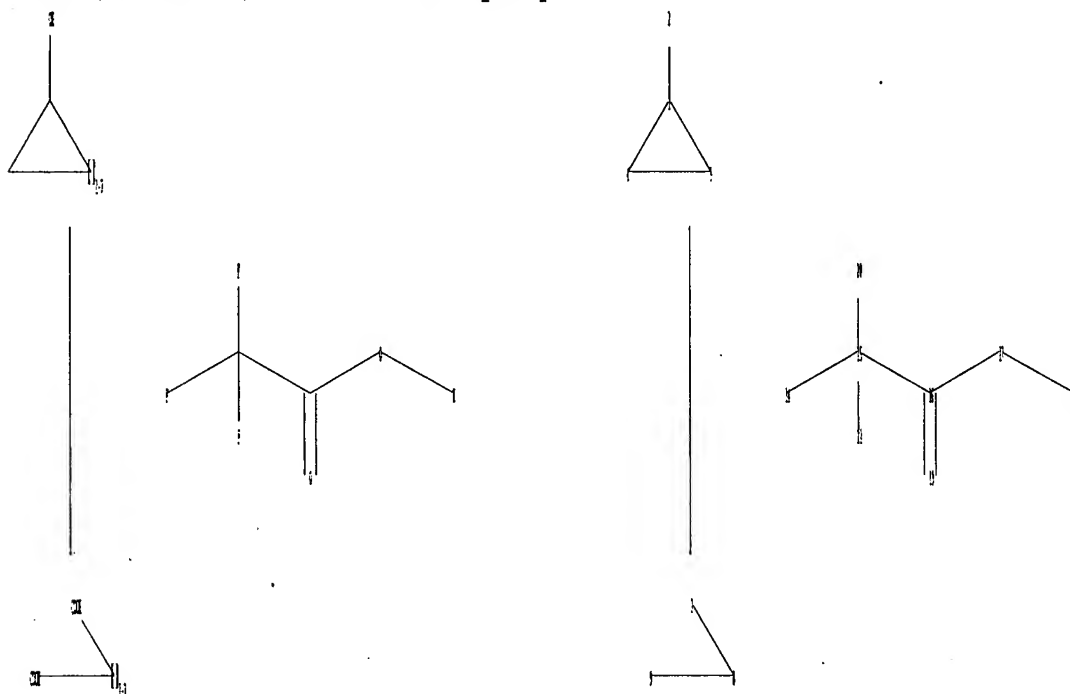
```
*****
*
*   CASREACT now has more than 12 million reactions
*
*****
```

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10599171\10599171 rxn query.str



```
chain nodes :
2  7  8  9 14 15 16 17 18 19 20 21
ring nodes :
1  3  4
chain bonds :
1-2  7-8  8-9 14-15 15-16 15-20 15-21 16-17 16-19 17-18
ring bonds :
1-3  1-4  3-4
exact/norm bonds :
1-2  1-3  1-4  3-4
exact bonds :
7-8  8-9 14-15 15-16 15-20 15-21 17-18
normalized bonds :
16-17 16-19
```

Match level :

```
1:Atom 2:CLASS 3:Atom 4:Atom 7:CLASS 8:CLASS 9:CLASS 14:CLASS 15:CLASS
16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS
fragments assigned reagent role:
```

containing 14
fragments assigned product role:
containing 7
fragments assigned reactant/reagent role:
containing 1

L15 STRUCTURE UPLOADED

=> d l15
L15 HAS NO ANSWERS
L15 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> search l15 sss sam
SAMPLE SEARCH INITIATED 09:09:58 FILE 'CASREACT'
SCREENING COMPLETE - 1271 REACTIONS TO VERIFY FROM 76 DOCUMENTS

100.0% DONE 1271 VERIFIED 9 HIT RXNS 2 DOCS
SEARCH TIME: 00.00.04

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 23283 TO 27557
PROJECTED ANSWERS: 2 TO 124

L16 2 SEA SSS SAM L15 (9 REACTIONS)

=> d wscan
'WSCAN' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

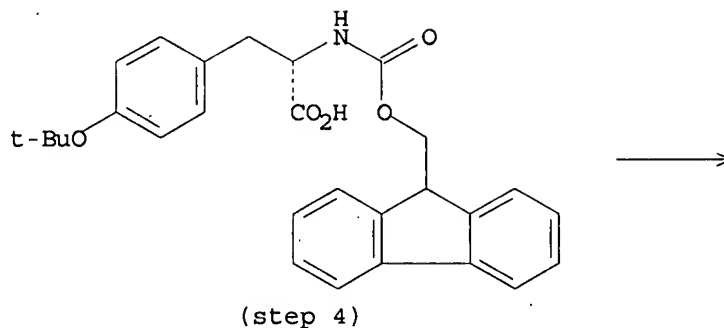
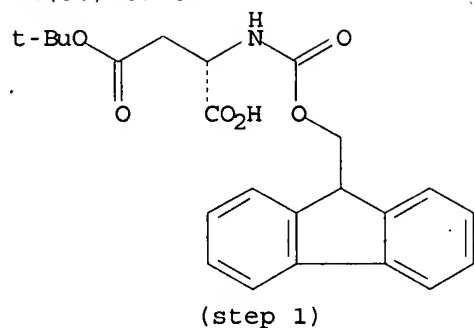
The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE, Single-step Reactions
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IND ----- Indexing data
IPC ----- International Patent Classifications
ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

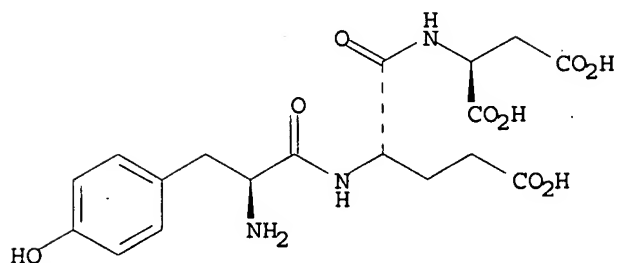
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

MAX ----- Same as ALL
PATS ----- PI, SO
SCAN ----- TI and FCRD (random display, no answer number. SCAN
 must be entered on the same line as DISPLAY, e.g.,
 D SCAN.)
SSRX ----- Single-Step Reactions (Map, Diagram, and Summary for
 all single-step reactions)

RX(36) OF 37



RX(36) OF 37



REF: Bioorganic & Medicinal Chemistry Letters, 16(12), 3277-3281; 2006

NOTE: automatic peptide synthesizer used, supported on Wang resin, solid-supported reaction

CON: STAGE(1) room temperature
STAGE(2) 1 hour, room temperature
STAGE(3) room temperature
STAGE(4) 1 hour, room temperature
STAGE(5) room temperature
STAGE(6) 1.5 hours, room temperature

=> help dfields

The display fields that you may see in records in this file are listed below. You may use these field codes in any combination with the DISPLAY and PRINT commands.

Reaction Fields

Display	
Code	Definition
-----	-----

CRD(n)	Compact Display of Reaction n
CRDREF(n)	Compact Display of Reaction n and SO, PY
RX(n)	Reaction n (Map, Diagram, Summary for reaction n)
RXG(n)	Reaction n Graphics (Map and Diagram for reaction n)
RXL(n)	Reaction n Long (Map, Diagram, Summary for all steps of reaction n)
RXS(n)	Reaction n Summary (Map and Summary for reaction n)
SSRX(n)	Single-Step Reaction n (Map, Diagram, and Summary for single-step reaction n)

Document Fields

Display

Code	Definition
-----	-----
AB	Abstract Text
AI (AP)	Patent Application Information
AI.B (AP.B)	Basic Patent Application Information
AN	Accession Number
AU	Author Name
CC	Classification Code (CA section and section cross-references)
CK	Crossover Key
CS	Corporate Source
CT	Controlled Term
CYA	Country Name of Author
CYC (CY.CNT)	Patent Country Count
DS	Designated State (Patents)
DS.B	Designated States, Basic
DT (TC)	Document Type
FS	File Segment
GI	Graphic Image or Graphic Image Information
ICA	Additional or Supplementary IPC
ICI	Index or Complementary IPC
ICM	Main IPC
ICS	Secondary IPC
IN	Patent Inventor
ISN	International Standard (Document) Number
IT	Index Term and Role
JT	Journal Title
LA	Language
NCL	National Patent Classification
OS	Other Source
PA	Patent Assignee
PB	Publisher
PI (PN)	Patent Information
PI.B (PN.B)	Patent Information, Basic
PNC (PN.CNT)	Patent Number Count
PRAI	Priority Information
PUI	Publisher Item Identifier
PY	Publication Year
PY.B	Publication Year, Basic
RE	Cited References
RETABLE	Cited References Table
RE.CNT (REC)	Citing Document's Reference Count
RL	Index Term and CAS Role
SO	Source
ST	Supplementary Term
SX	CA Section Cross Reference
TI	Title of Document
URL	Uniform Resource Locator

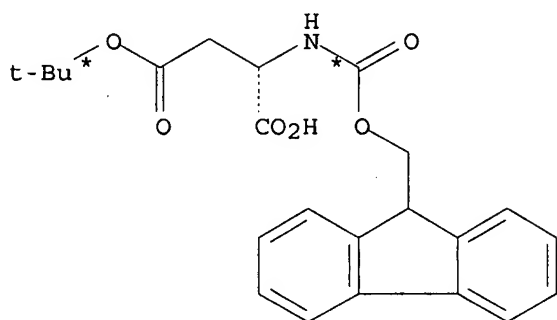
For more information on displaying individual fields, enter HELP
FORMAT at an arrow prompt (=>). To find out about extracting terms
from display fields, enter HELP SELECT and HELP ANALYZE. For a list

of fields that may be used with the SELECT and ANALYZE commands,
enter HELP EFIELDS.

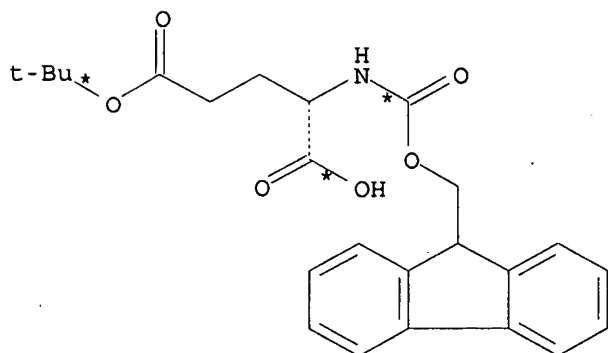
=> d rx

L16 ANSWER 1 OF 2 CASREACT COPYRIGHT 2007 ACS on STN

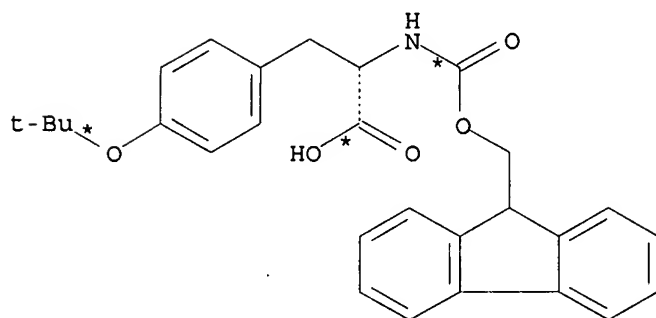
RX(36) OF 37 T + AB + P ==> BK



T

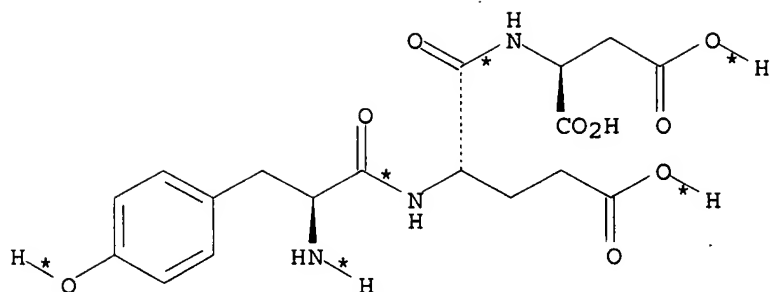


AB



P

(36) →



BK

RX(36) RCT T 71989-14-5

STAGE(1)

RGT F 110-89-4 Piperidine
SOL 68-12-2 DMF
CON room temperature

STAGE(2)

RCT AB 71989-18-9
RGT G 125700-67-6 Benzotriazolium der, H 7087-68-5 EtN(Pr-i)2,
I 2592-95-2 1-Benzotriazolol
SOL 68-12-2 DMF
CON 1 hour, room temperature

STAGE(3)

RGT F 110-89-4 Piperidine
SOL 68-12-2 DMF
CON room temperature

STAGE(4)

RCT P 71989-38-3
RGT G 125700-67-6 Benzotriazolium der, H 7087-68-5 EtN(Pr-i)2,
I 2592-95-2 1-Benzotriazolol
SOL 68-12-2 DMF
CON 1 hour, room temperature

STAGE(5)

RGT F 110-89-4 Piperidine
SOL 68-12-2 DMF
CON room temperature

STAGE(6)

RGT J 540-63-6 HSCH2CH2SH, K 100-68-5 PhSMe, L 7732-18-5 Water,
M 76-05-1 F3CCO2H, N 108-95-2 PhOH
CON 1.5 hours, room temperature

PRO BK 898268-87-6

NTE automatic peptide synthesizer used, supported on Wang resin,
solid-supported reaction

=> logoff hold
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
10.96	63.79

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-2.34

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:14:40 ON 08 AUG 2007